INSTRUCTIONS
说明
VZ-8light

English / 中文

PRECAUTIONS

WARNING!

RISK OF ELECTRIC SHOCK
DANGEROUS VOLTAGE INSIDE

Caution:

To reduce the risk of electric shock, do not open the unit. No user serviceable parts inside. Refer servicing to qualified service personal only!

Warning:

To reduce the risk of electric shock or fire, do not expose this unit to rain, moisture or extreme heat!

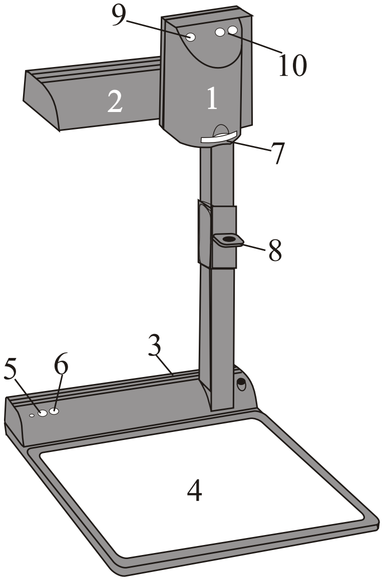
Warning:

The external Power Supply has to be approved by CSA or UL in accordance to CSA 22.2-60950 or UL1310. The outputs have to be rated NEC power class II and SELV.

CE	This product is built according to Directive EMC and to Directive electrical equipment.
C US	Proofments according to UL 60950. CSA 22.2-60950
FCC	"This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation."

Manufacturer:
WolfVision GmbH, Vlbg. Wirtschaftspark, A-6840 Götzis, Austria
Tel. ++43-(0)5523-52250-0, Fax ++43-(0)5523-52249
E-Mail: wolfvision@wolfvision.com, Internet Homepage: www.wolfvision.com

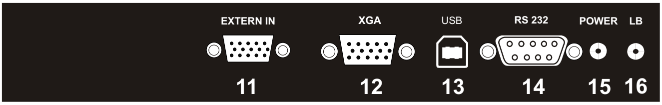
Made in: Austria (EU) Printed in Austria June 2002



ENGLISH

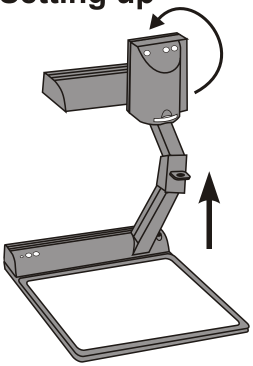
#1 Camera head
#2 Light
#3 Connectors (on the back)
#4 Working surface
#5 Power on/off key
#6 Light key (Also works as White Balance key if pressed for 3 seconds - *see page 6*)
#7 Close up lens for camera
#8 Pull ring
#9 Auto focus on/off key (a light above this key shows that the auto focus is on)
#10 Zoom keys (if the Zoom keys are pressed simultaneously with the Auto fucus key (9) they work as manual FOCUS keys.

Connectors *(3)*:



#11 **External input** for Computers *(see page 4)*
#12 **RGBHV** output (switchable)
#13 **USB-port** *(see page 4)*
#14 **Serial control** input RS232 *(see page 9)*
#15 **Power connection** 12V
#16 **DC**-output for lightbox *(see page 4)*

Setting up



1. Pull the arm upwards using the special pull ring *(#8)*
2. Turn the camera head *(#1)* and point it at the working surface
3. Connect the power adaptor to the DC-input *(#15).*
4. Connect your output unit (projector, monitor, video conferencing unit etc.) to the appropriate output of the Visualier *(#12 or #13).*

IMPORTANT:
For choosing the right output mode please read the detailled description on page 4!

5. Switch on the Visualizer with the power switch *(#5)*

<u>Power-on preset:</u>
The power-on preset is automatically activated when switching on the unit. The settings are: Zoom size approx. 20 x 15 cm (A5), Autofocus on, Autoiris on.

Choosing the right output mode (XGA at 75Hz or 60Hz)

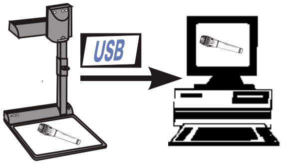
The RGBHV-output *(#12)* can output signals in the following formats:
- XGA (1024x768 pixel) at 75Hz
- XGA (1024x768 pixel) at 60Hz

The default setting is XGA (1024x768) at 60 Hz.

If you output the Visualizer image on a CRT-monitor or CRT-projector, use an output mode with 75Hz, because 60Hz may show a slight image flickering. For LCD/DLP projectors or monitors and video conferencing units 60Hz is the best choice. If you are unsure what is the best mode read the user manual of the connected units.

You can change the output mode in the on-screen-menu of the Visulizer (see page 7, 8).

USB-PORT



The **USB** output of the VZ-8light can be used to transfer Visualizer images onto a computer in just 2 seconds. No additional computer hardware (like a grabber card) is required. In this way the Visualizer can be used as a 3-D scanner for your computer. Just connect the USB port *(#13)* of the Visualizer and the USB port of your computer, using the supplied USB cable.

A dedicated WolfVision USB-software can be downloaded from WolfVision's Internet homepage at: **www.wolfvision.com/wolf/techinfo.html.** The software works under Windows 98, ME, 2000 and XP. Windows 95 and NT will not work, because they do not support USB.

EXTERNAL INPUT

A Computer can be connected to the **External RGBHV input** *(#11)* of the Visualizer. Press the **Power**-key *(#5) for 2 seconds* to switch between the Visualizer and Computer image to be displayed to the audience.

The signal from the computer is just looped through the Visualizer and is not processed in any way. In order to avoid that your projector or monitor adjusts itself when switching, it is recommended that you set the output of the computer to the same signal format (XGA) and vertical frequency (75 or 60Hz) as the Visualizer. The default output settings of the Visualizer is: **XGA (1024x768) at 60Hz**.

WolfVision lightboxes (optional)

Connect the power cord to the light box connector *(#16)* on the back side of the Visualizer. The light switch *(#6)* of the Visualizer can now be used to switch between the light of the Visualizer and the light of the lightbox.

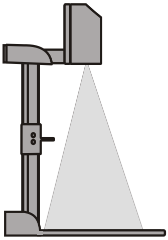
Other lightboxes:

In order to prevent reflections the light of the Visualizer always has to be switched off when working with lightboxes.

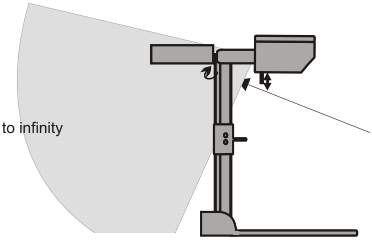
Shooting area on the working surface:

Eliminating reflections
In order to eliminate reflections (on high gloss photographs etc.) just turn the light backwards slightly.

Please note that reflections can also be caused by the room light.



Shooting area outside of the working surface:



Turning the light backwards
In order to enable recordings with illumination outside of the working surface, the light of the Visualizer can be horizontally turned an angle of up to 250 degrees.

Close-up adaptor lens
For shooting an object outside the working surface, in a further distance to the unit, the close up lens *(#7)* has to be removed.
In this case just pull the lens away from the main optic Of the camera until it reaches the locked position. It is impossible to remove the lens completely from the unit, therefore it can not get lost. Before turning back the camera into the standard working position push the close up lens back in.

Autofocus:

When switching on the unit the autofocus is automatically switched on too. The correct focus is continuously adjusted. The green light beside the autofocus on/off switch *(#9)* is illuminated if the autofocus is on.

Please note that objects with a very low contrast (like a blank sheet of paper) are difficult to focus. If the autofocus does not work just move the object slightly.

For special applications the autofocus can also be switched off using the on/off switch *(#9).* The autofocus is also switched off when the manual zoom keys of the remote control are used.

Manual focusing

For manual focusing press AF-key (#9) (hold it down) and focus with the zoom keys (#10).

Digital Zoom

Please note that the VZ-8light has an **optical 12x zoom**, which is digitally increased to a **24x zoom**. The smallest pickup size on the working surface without (!) digital zoom is 23 x 31mm (0.9" x 1.2"). When you zoom in further the digital zoom is automatically activated and the smallest pickup size is 12 x 16mm (0.5" x 0.6"). However please be aware that when the digital zoom is used the resolution of the picture is not as good as before. The default setting is that the zoom stops and a message appears on-screen when you are in the digital zoom mode.

White balance:

Correct white balance adjustment is important for true colors! The default white balance setting when the VZ-8light is shipped is "**Auto Tracking**". This means that the white balance is continuously adjusted. If the colors appear to be wrong try to move any object in the picture. However an "Auto Tracking" white balance can never be 100% correct.

For a more precise white balance adjustment use the "**One Push**" white balance. This can be done by completely zooming in a white paper on the working surface and pressing the LIGHT-key *(#6)* for 3 seconds. When the white balance is stored an on-screen message appears. Setting a "One Push" white balance switches off the "Auto Tracking" mode and the current white balance setting remains in the memory even when the unit is switched off. When the lighting conditions change (e.g. different room light or sunlight) the white balance should be readjusted!

*For specialists: The VZ-8light can be switched between "**Auto Tracking**", "**One Push**" and "**Manual**" white balance mode in the on-screen menu* *(see page 9)*
If you work with negative transparencies and an external light box, use a blank (dark) piece of the negative film for white balance adjustment!

Image Freeze Function

You can freeze the current image by just pressing the AF-key (#9) for 2 seconds.

The following chapters are for experienced users only:

ON-SCREEN MENU

For standard use of the WolfVision Visualizer it is not necessary to go into the Visualizer's menu and change settings. Inexperienced users should not make any adjustments there.

To enter the on-screen menu press the **AF**-key (#9) and both **ZOOM**-keys (#10) simultaneous **for one second**.

Settings of the Visualizer's basic functions and the built-in camera can be made here. Use the **AF**-key (#9) to select and the **ZOOM**-keys (#10) to navigate in the menu

SWITCHING TO NEGATIVE, NEGATIVE/BLUE and BLACK/WHITE

The output image of the Visualizers can be switched from positive to negative in the on-screen menu. In addition the background of a negative image can be switched to blue for better readability of text. You can also switch between color and black and white in the on-screen menu.

Auto Power off

In the "Power-On Settings” settings of the on-screen menu you can select that the Visualizer will be automatically switched off, if it is not used for a certain time.

Changing the standard contrast (color) settings

If the picture or the colors on your screen appear to be too dark, you can lower the overall contrast of the picture in the "Color settings" menu of the on-screen menu.

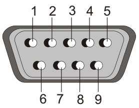
RESET OF ON-SCREEN MENU SETTINGS

All settings in the on-screen menu can be set back to the factory defaults. "Reset Complete Menu" is one item in the on-screen menu.

Firmware Upgrades

The firmware (software) of your Visualizer can be upgraded to the latest version. This can be done by connecting a computer or a modem to the RS232 port of your Visualizer.
Please consult your WolfVision dealer or check the WolfVision homepage at:
www.wolfvision.com/wolf/techinfo.html.

Serial control input, RS 232



9-pin D-Sub connector on unit
male, front side

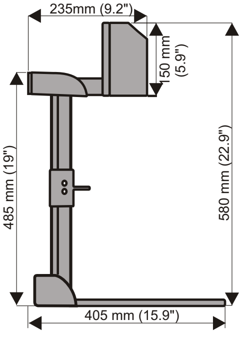
Pins: 2: RX, 3: TX, 5: GND, 7: RTS, 8: CTS
Baud rate: 19200 or 9600, databits: 8, stopbit: 1, parity: no
Please note that Decimal-Codes (=ASCII-Codes or Hex-Codes) must be sent as one single byte (e.g. 199 and not: 1 + 1 + 9) !

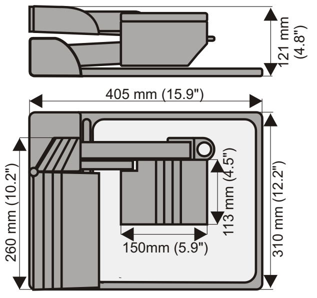
Function:	Decimal-Code :
Image on	192
Iris open	193
Focus far	194
Zoom wide	195
Image off	196
Iris close	197
Focus near	198
Zoom tele	199
Preset 1	202
Preset 2	203
Save Preset 1	216
Save Preset 2	217
Preset max. wide	229
Preset A5	231
Preset A6	232
Preset max. tele	235

A detailed description of the serial protocol can be found on our internet homepage:
www.wolfvision.com/wolf/techinfo.html

Technical data	VZ-8light
Camera	1-CCD 1/3" Progressive Scan Camera
Output signals	XGA (1024x768 pixel), USB
Pictures per second (as picked up by the camera)	20 frames (=full pictures)
Horizontal resolution	640 lines (with perfect edge focus)
Vertical resolution (measured with testcard somewhere in the picture)	640 lines
Image Turn mode (for increased resolution when picking up complete portrait pages)	-
Effective Pixel (=pixels actually used for the image information)	810,000
Total pixels of CCD	840,000
Color reproduction	very good colors
Vertical image-frequency	75 or 60 Hz
Horizontal image-frequency	60.2 or 48.3 kHz
Signal format	non-interlaced
Iris	automatic (manual iris in on-screen menu)
White balance adjustment	automatic and manual
Autofocus	yes
Manual focus	yes
Text enhancement function (in color)	-
On screen menu and Menu reset function	yes
Upgradeable firmware (through software downloads from internet)	yes
Lens (real lens pick-up factor!) / Zoom	24 x zoom (12 x optical + 2 x digital)
Max object height on working surface	150mm (6") in tele position, 370mm (15") in wide position
Max. pick-up area on working surface	Length: 270mm (10.8"), Width: 360mm (14.4")
Max. pick-up area on working surface in Image Turn mode	Length: 360mm (14.4"), Width: 270mm (10.8")
Min. pick-up area on working surface (in full resolution, with optical zoom)	32 x 24 mm (1.2" x 0.9")
Min. pick-up area on working surface (with digital zoom)	16 x 12 mm (0.6" x 0.5")
Max. object outside of working surface	unlimited
Depth of focus on small object (42 x 33 mm)	18mm (0.7")
Depth of focus on large object (360 x 270 mm)	200mm (8")
Disturbing stray light	almost none
Blinding of audience or speaker	none
Light source	high frequency fluorescent lamp
USB software for image capture and controlling	included (for Windows 98/2000/ME/XP), twain compatible
Time for still image capture through USB software	2 seconds
Reflection free area on working surface	360 x 230mm (17.3"x 9.2")
Quick recordings outside of the working surface possible	yes
Intelligent folding system	yes - pneumatic arm
User programmable presets	3 plus 8 fixed presets - all trough RS232
Special working surface for transparencies	yes
Slidedrawer	-
Computer input / Input switch	yes (15-pin D-Sub plug)
Image memory	1 image (freeze)
"Show all" function	-
Alternative Image display:	negative image / negative-blue image / black and white image
PAL/NTSC video outputs (converted Progressive Scan signals)	-
RGBHV (=data RGB) output (for SXGA, XGA and SVGA signals)	15-pin D-Sub-plug
DVI output (for SXGA, XGA and SVGA signals)	-
USB port	yes
RS232 port and serial protocol with position setting and status report	9-pin Sub-D plug
Weight / Portability	4.5 kg (10 lbs), portable
Infrared remote control	-
Power (external power pack on portable units)	multi range 100-240 V weight: 0.3kg (0.6lbs)
Carrying case	included (soft case with side pocket for projector or notebook)
Made in	Austria (European Union)

Specifications and availability subject to change.





Changing the lamp of the Visualizer:

1. Remove the power cord of the Visualizer.
2. Remove lamp housing glass. (1 Screw)
3. Remove the safety clip
4. Change the lamp. CAUTION: Hot when used!

Lamp type: Osram Dulux S/E 9W/21 or equivalent

预 防

警告！

小心触电
内部电压危险

注意：

要减少遭触电的危险，请不要打开展台。
无用户有用的备件在内。只有寻求有资格的技术人员的帮助来维修。

警告：

要减少遭触电与火灾的危险，请不要将器械暴露于潮湿、雨水或极高热度。

警告：

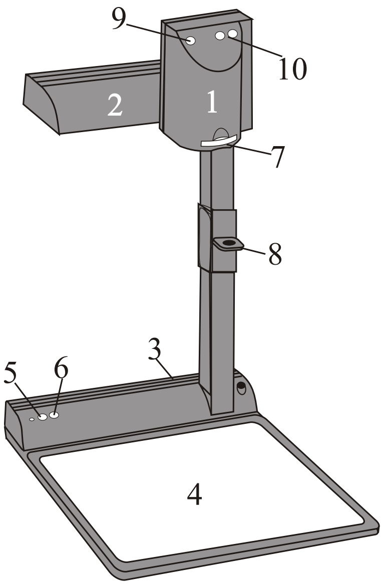
外来的电源供应一定要 CSA 或 UL 批准，与 CSA 22.2-60950 或 UL 1310 一致。其输出必须是 NEC 电源等级 II 和 SELV 鉴定。

CE	此产品是以Directive EMC 和Directive电器装备制造的。
UL	证据根据UL 1950.CSA-C 22.2 号码：950-95而定的
FCC	此装备已经过测试还根据Class A数码装置限定照做，按照FCC 规则Part 15。这些限定是设计来对付当装备在商业环境使用时所有有害的干扰性提供合理的保护。此装备产生、应用和可散发无线电频率能量，而如果没安装又没依照指示手册使用的话，可能会对无线电通讯造成有害的干扰性。在住宅区使用从装备也可能制造有害的干扰性，不过用户必须自费改正干扰性。

制造商：

WolfVision GmbH, Vlbg. Wirtschaftspark, A-6840 Götzis, Austria
Tel. ++43 - (0)5523 - 52 250-0, Fax ++43 - (0)5523 - 52249
E-Mail: wolfvision@wolfvision.com, Internet Homepage: www.wolfvision.com

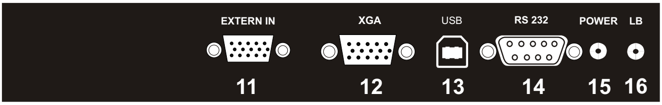
制造于：奥地利（欧洲联盟）　　奥地利印刷　　2002年6月



中 文

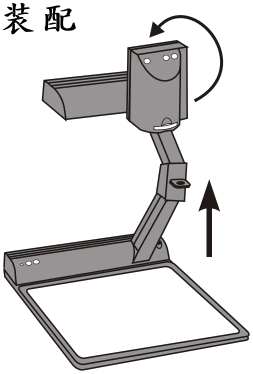
1. 摄像机头
2. 灯源
3. 接插件（在后边，请看下面）
4. 台面
5. 电源开关钮
6. 灯钮（如果按着3秒，也是白平衡钮－请看第7页）
7. 摄像机摄近距离镜片
8. 拉环
9. 自动对焦开关钮（当此钮上亮灯时，自动对焦正在启动）
10. 变焦钮(如果同时按着变焦钮和对焦钮（9），就变成手动对焦钮）

接插件（3）：



11. 供电脑使用的外部输入（请看第4页）
12. **RGBHV**输出（可转换型）
13. USB接口（请看第4页）
14. 串联输入控制 RS 232（请看第9页）
15. 电源连接12V
16. 连接底灯的接口（请看第4页）

装配



1. 用特制拉环把臂向上拉（#8）
2. 把摄像机头（#1）转向台面
3. 把电源转接器接插到电源接口（#15）
4. 把电视，投影机或影像摄影机接插到合适的输出（#12或#13）

重要：
要选择正确的输出，请查阅第5页。

5. 按电源钮（#5）以为展台通电。

初始化：

开启展台时，以下设定为出厂预设，自动启动。这些设定是：变焦尺寸大约 20 x 50cm（A5）、自动对焦启动、自动光圈启动和影像启动。

选择正确的输出模式（在75或60Hz的XGA）

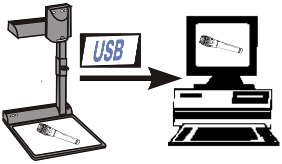
RGBHV- 输出（#12）可输出以下版式的信号:
-在75Hz的XGA（1024x768像素）
-在60Hz的XGA（1024x768像素）

初始的设定是在60Hz的XGA（1024x768）。

如果您把展台的影像输出到一个 CRT电视或 CRT放映机，请应用 75Hz的输出模式，因为 60Hz的模式可能造成影像稍微摇曳。LCD/DLP放映机或电视和影像会议部件，60Hz却是最佳选择。如果您对最佳模式的选择不肯定,那就请参阅连接部件的用户手册。

您可在屏幕项目表上更换展台的输出模式（看第7、8页）。

USB－接口



USB输出法只需两秒就可以把展台上的物件传送到电脑里去。完全无需再安装额外的硬件（如 grabber card）来操作。展台就应变为电脑的立体扫描机了。只需使用提供的 USB电缆连接展台和电脑的USB 接口（#13）。

沃府视讯专用的USB软件可在电脑光碟找到。如要更新软件，请查询本公司网页：www.wolfvision.com/wolf/techinfo.html免费卸载即可。这软件适用于视窗98、ME、2000与XP。不适合视窗95和NT，因为它们不支持USB。

外部输入

电脑可以连接展台的**外部 RGBHV**输入（#11）。用户只需按着 **Power** 钮（#5）2秒，就可以选择向观众放映展台或电脑的影像。

从电脑里的信号环过展台而没有经过任何加工。为了要防止您的放映机或电视当转换时自动调整，最好是将电脑与展台的输出设定设至相同的信号版式（XGA），和垂直的频率（75或60Hz）。初始的设定是在 60Hz的 XGA（1024x768）。

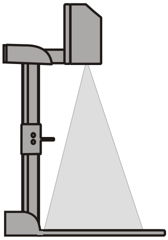
沃府视讯底灯（额外）

将底灯的电缆与展台后边的底灯插口（#16）接插。展台的灯钮（6）现在可用来转换使用展台的顶灯和灯盒之间。

注意：

为了要防止反光，在使用底灯时，展台的顶灯应该关掉。

台面上的摄录范围

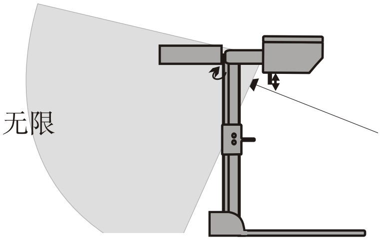


排除反光

为了要排除反光（例如在高光泽的照片等）只需调整顶灯稍微向后。

请注意室内灯光也会制造反光。

台面外的摄录范围



将顶灯调向后端

为了应用照明和台面外录像，展台的顶灯可横的转动高达250度。

摄近距离镜片

需摄录展台面外的物件时，展台的摄近距离镜片（#7）必须拉出。只需将镜片从摄像机头拉出直到它锁定位置。要完全把镜片拉出是不可能的，这样镜片才不会容易遗失。在将摄像机头转回标准运作位置时，请把镜片推回原位。

自动对焦

展台开启时，自动对焦会自动启动。准确的对焦是需不停在高速调整的。自动对焦钮（#9）旁的绿灯代表自动对焦正在启动。

请注意拥有很低颜色对比的物件（如空白的纸张）是较难对焦的。如果自动对焦无法发挥作用，就稍微移动一下物件。

自动对焦也可在特别情况下用开关钮（#9）关掉。自动对焦也可通过遥控器上的手动对焦钮关掉。

手动对焦

手动对焦只需按着AF钮（#9）（按着不放），然后用变焦钮（#10）对焦。

数码变焦

请注意VZ-8light有12倍的光学变焦，其数码式增加了总变焦至24倍。在不用到（！）数码变焦时，展台的最小摄录范围是23 x 31mm（0.9 x 1.2）。当你进一步变焦时，数码变焦会自动启动而最小摄录范围是12 x 16mm（0.5 x 0.6）。不过，当使用数码变焦时请注意，影像的清晰度不会比使用前一样好。当您在数码变焦模式时, 变焦模式讯息会出现在屏幕上。

白平衡：

正确的白平衡调整对真实的颜色是非常重要的！VZ-8light初始的白平衡是“自动追踪”的。这代表着白平衡是不断调整的。如果影像的颜色不对，只要稍微移动任何影像中的物件就行。“自动追踪”白平衡调整不可能有100%准确。

要更精确的白平衡，请用“一钮式”白平衡。只需在台面完全对焦在一张白纸上，按着LIGHT钮（#6）3秒。当白平衡被储存后，屏幕上会出现讯息。设定了“一钮式”白平衡就会关掉“自动追踪”模式，而当前的白平衡设定，就算把展台关掉，都将保留在记忆里。当灯光情况转变时（如不同的室内灯光或阳光），白平衡应该从新调整。

供熟练者：VZ-8light可以在屏幕项目表上转换“自动追踪”、“一钮式”和“手动”白平衡模式。（请看第9页。）如果您要和负片幻灯片与外部灯盒合作，用一片黑（暗色）的底片作白平衡调整。

影像冻结功能

您只需按着AF钮（#9）2秒，就可冻结当前的影像。

以下篇章只是供熟练的用户:

屏幕项目表

要标准使用沃府视讯展示台的话是<u>无需</u>到展台的项目表更换设定的。不熟练者<u>不应该</u>作任何调整。

要进入屏幕项目表请同时按 AF 钮（#9）和两个 ZOOM钮（#10）1秒。

展台基本的功能和内制摄像机的设定都可作调整。应用 AF 钮（#9）来选择，ZOOM 钮（#10）来跨越项目表。

转换负片、负片/蓝和黑白

展台输出的影像可从屏幕项目表从正片转换成负片。再加上负片影像的背景也可转换成蓝色以更好地阅读文字。您也可以从屏幕项目表转换彩色的影像成黑白

自动关电源

屏幕项目表上的“Power control”设定，您可选择展台在一段时间没使用后，自动关电。

更换标准对比（颜色）设定

如果您的影像或屏幕呈现较暗，您可以从屏幕项目表上的“Color settings”，调低全部的画面对比。此设定可以分别为普通模式和文字模式调整。

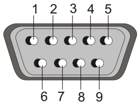
重新设定屏幕项目表设定

屏幕项目表的所有设定都可以设回工厂初始的设定。“Reset Complete Menu”是屏幕项目表的一个项目。

软件提升

展台的软件可提升至最先近的版本。只需将展台与电脑或调制解调器通过RS232连接起来。请咨询您的沃府视讯代理或游览沃府视讯的网页：www.wolfvision.com/wolf/techinfo.html

串联控制输入，RS 232



展台的9-pin D-sub 接插器（雄性），前端

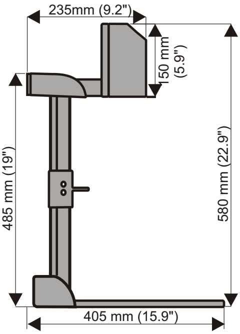
管脚：　2：RX，　3：TX，　5：GND，　7：RTS，　8：CTS
波特率：　19200 or 9600，databits：8，stopbit：1，parity：no
请注十进编码系统（＝ASCII-编码或Hex-编码）一定要以单一的字节（如：199而不是：1+1+9）送出。

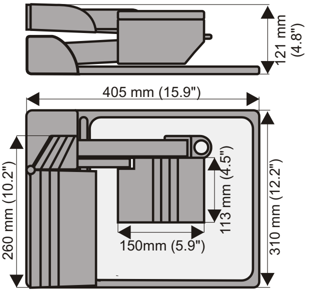
功能:	十进编码系统:
影像开	192
光圈开	193
远变焦	194
宽对焦	195
影像关	196
光圈关	197
近变焦	198
小对焦	199
预先调整 1	202
预先调整 2	203
储存预先调整 1	216
储存预先调整 2	217
最宽预先调整	229
预先调整 A5	231
预先调整 A6	232
最小预先调整	235

串联的详细描述可在本公司网页找到：
www.wolfvision.com/wolf/techinfo.html

技术资料	VZ-8light
摄像机	1CCD机身－1/3 顺次扫描摄像机
输出信号	XGA（1024 x 768）、USB
帧速率	每秒20个影像（20 Frame/sec）
水平清晰度	640条电视谱线（以完美边缘对焦）
垂直清晰度（以Testcard在影像某处量）	640条电视谱线
影像转动方式（当摄录竖排格式页时，提高清晰度）	-
有效像素（＝所用在影像信息的像素）	810，000
CCD的总像素	840，000
颜色再现	良好的颜色
垂直影像频率	75Hz或60Hz
水平影像频率	60.2或48.3kHz
信号版式	无隔行扫描和隔行扫描
光圈	自动（屏幕项目表的手动光圈）
白平衡	自动和手动
自动对焦	有
手动对焦	有
加强文字功能（颜色）	－
屏幕项目表，屏幕援助表和项目表重新设定功能	有
可提升的软件（通过网络卸载软件）	有
镜片/对焦	24倍变焦(12倍视力＋2倍数码式)
实物在台面上最高高度	150mm（6″）最小图片，370mm(15″）宽位置
台面上最大摄录范围	长：270mm（10.8″),宽：360mm(14.4″)
在影像转动方式台面上最大摄录范围	－
台面上最小摄录范围（在全清晰度，以光学变焦）	32 x 24 mm（1.2″x0.9″）
台面上最小摄录范围（以数码变焦）	16 x 12 mm（0.6″x0.5″）
台面外最大物件	无限制
摄录小物件的景深（42 x 33 mm）	18mm(0.7″)
摄录大物件的景深（360 x 270 mm）	200mm(8″)
干扰性散光	几乎没有
使主讲者或观众眩目	不会
光源	高频率荧光灯
捕捉影像和控制的USB软件	包括（供视窗98/2000/ME/XP）
通过USB捕捉不动的影像时间	2秒
无反光照射面范围	360 x 230mm（17.3″x 9.2″）
快速机身前端摄录	可
智能折叠系统	有（压缩空气推动臂）
用户编订预先设定	3个（全通过RS232加8个固定预先设定）
特制透明胶片台面	有
幻灯片特制抽屉	－
电脑输入/输出钮	有（15-pin D-Sub插头）
影像储存	1个（冻结）
“Show all”功能	－
供选择的影像展现	负片影像/负片-蓝影像/黑白影像
PAL/NTSC影像输出（变换的顺次扫描信号）	－
RGBHV（＝数码RGB）输出（供SXGA、XGA和SVGA信号）	15-pin D-Sub 插头
DVI输出（供SXGA、XGA和SVGA信号）	－
USB接口	有
以位置设定和身份报告的RS232接口和串联草案	9-pin D-Sub 插头
重量/可否提携	4.5 公斤（10磅），可提携
红外线遥控	-
电源（在手提展台的外部电源器）	多行100-240V，种类：0.3Kg（0.6磅）
手提箱	包括（柔软手提箱附有旁袋供存放放映机和个人电脑）
产地	奥地利（欧洲联盟）

规格与利用度可随时更改





更换展台的灯泡：

1.拿掉展台的电缆。
2.移开灯盖。（1个螺丝）
3.移开安全夹子
4.更换灯泡。
小心：使用时很烫

灯泡款：Osram Dulux S/E 9W/21 或同等